

## **Claims**

What is claimed is:

1. A femoral head assembly connectable to a femoral hip stem, the femoral head assembly comprising:
  - a femoral head having a body with a spherical outer surface adapted to articulate with an acetabular component; and
  - a neck connectable to the femoral head to provide a plurality of different femoral offsets with respect to the femoral hip stem.
2. The femoral head assembly of claim 1 wherein the body of the femoral head has a threaded bore, and the neck has a threaded section threadably engageable with the threaded bore.
3. The femoral head assembly of claim 1 wherein the neck has a first end with a bore and a second end that is removeably connectable to the femoral head.
4. The femoral head assembly of claim 3 wherein the bore is adapted to receive a neck of the femoral hip stem.
5. The femoral head assembly of claim 1 wherein the neck is adapted to extend outwardly from the femoral head in various lengths, wherein each length corresponds to one femoral offset.
6. The femoral head assembly of claim 5 wherein the femoral offsets are provided in increments of 1 mm.
7. The femoral head assembly of claim 6 wherein the femoral offsets include 1 mm, 2 mm, 3 mm, 4 mm, 5 mm, and 6 mm.

8. A femoral head assembly, comprising:
  - a femoral head having a body with an outer surface adapted to articulate with an acetabular component;
  - a neck having a first end connected to the femoral head and a second end adapted to connect to a femoral hip stem; and
  - an adjustment mechanism engageable with the neck to provide a plurality of different femoral offsets with respect to the femoral hip stem.
9. The femoral head assembly of claim 8 wherein the adjustment mechanism includes a plurality of spacers.
10. The femoral head assembly of claim 9 wherein the femoral head includes a bore adapted to receive the spacers.
11. The femoral head assembly of claim 10 wherein at least one spacer has a thickness selected from 1 mm, 2 mm, 3 mm, and 4 mm.
12. The femoral head assembly of claim 10 including four spacers with at least three different thicknesses.
13. The femoral head assembly of claim 8 wherein the adjustment mechanism includes a biasing member for biasing the first end of the neck.
14. The femoral head assembly of claim 13 wherein the femoral head includes a bore adapted to receive the biasing member.
15. The femoral head assembly of claim 8 wherein the adjustment mechanism includes a ring-shaped spacer.

16. The femoral head assembly of claim 15 wherein ring-shaped spacer is shaped as a C-clip.
17. The femoral head assembly of claim 8 wherein the second end of the neck includes a shoulder and the adjustment mechanism abuts against the shoulder.
18. A femoral head system, comprising:
  - a plurality of femoral heads having at least three different outer diameter sizes, wherein each head has a body with an outer surface adapted to articulate with an acetabular component;
  - at least one neck having a first end connectable to the femoral heads and a second end adapted to connect to a femoral hip stem; and
  - an adjustment mechanism engageable with the neck to provide a plurality of different femoral offsets with respect to the femoral hip stem.
19. The femoral head system of claim 18 wherein the adjustment mechanism includes a plurality of spacers having at least three different thicknesses.
20. The femoral head system of claim 19 wherein the spacers can be stacked together to provide the different femoral offsets.